

ABSTRACT OF THE DISCLOSURE

A wireless network planning tool simulates wireless network operation, including subscriber admission processing, based on sophisticated reverse and forward link analyses that include data fall back procedures. Subscribers are associated with an application type, where each application type preferably has maximum and minimum data rates and one or more fall back rates. During simulation, the tool may use fall back when evaluating forward and reverse communication links between subscribers and their associated sectors (base stations). A subscriber unable to close a reverse link to a given sector at a given data rate, may be re-evaluated at a lower rate under fallback procedures. Forward link analysis incorporates similar fallback procedures in forward link call admission. Fallback procedures include appropriate supplemental channel adjustments, and corresponding forward and reverse link power adjustments reflecting adjusted data rates. Forward and reverse link fallback procedures are independent and allow for different data rates for each link.